

WDSS Report

Date: 26/03/98

PB/ABS

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Well no:	Operator:
6407/10-03	HYDRO

Well

Coordinates :	64° 06' 11.66"N 07° 18' 11.43"E	UTM coord. :	7109795.67 N 417314.23 E
License no :	132	Permit no :	721
Rig :	TRANSOCEAN 8	Rig type :	SEMI-SUB.
Contractor :	TRANSOCEAN ASA		
Bottom hole temp:	87 °C	Elev. KB :	23.5 M
Spud. date :	92.05.29	Water depth :	324 M
Compl. date :	92.06.27	Total depth :	2973 M
Spud. class :	WILDCAT	Form. at TD :	
Compl. class :	P&A. SHOWS	Prod.form. :	
Seisloca :	NH 8411-404, SP. 460		

Licenseses

10.000000 DEMINEX NORGE AS
 20.000000 NORSK HYDRO PRODUKSJON AS
 10.000000 A/S NORSKE SHELL
 50.000000 DEN NORSKE STATS OLJESELSKAP A.S
 10.000000 NORSK AGIP AS

Casing and Leak-off Tests

Type	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	434.0	36	436.0	
INTERM.	18 5/8	802.0	26	804.0	1.59
INTERM.	13 3/8	1773.0	17 1/2	1775.0	1.94

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	1830.0 – 1836.3	6.3	100.0
2	2972.0 – 2972.6	0.6	100.0

Mud

Depth	Mud weight	Visc.	Mud type
369.0	1.04		WATER BASED
369.0	1.04		WATER BASED
380.0	1.44	26.0	WATER BASED
435.0	1.03		WATER BASED
736.0	1.20	8.0	WATER BASED
736.0	1.20	8.0	WATER BASED
817.0	1.20	8.0	WATER BASED
987.0	1.30	28.0	WATER BASED
1344.0	1.38	23.0	WATER BASED
1583.0	1.43	27.0	WATER BASED
1656.0	1.26	26.0	WATER BASED
1680.0	1.45	29.0	WATER BASED
1788.0	1.40	21.0	WATER BASED
1832.0	1.25	21.0	WATER BASED
1953.0	1.25	23.0	WATER BASED
2110.0	1.25	20.0	WATER BASED
2136.0	1.25	22.0	WATER BASED
2242.0	1.25	26.0	WATER BASED
2349.0	1.25	25.0	WATER BASED
2440.0	1.25	22.0	WATER BASED
2489.0	1.25	24.0	WATER BASED
2973.0	1.25	26.0	WATER BASED

Drill Stem Test (intervals and pressures)

Test no.	Test interval meter	Choke size	Pressure (psi) WHP	BTHP	FFP
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Drill Stem Test (recovery)

Test no.	Oil Sm ³ /d	Gas Sm ³ /d	Oil grav. g/cm ³	Gas grav. rel. air	GOR m ³ /m ³

Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	820.0 - 2972.0	360

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500	
CALIBRATED SONIC	850.0 - 2950.0			1000
CST	1787.0 - 2952.0			
DIL LSS GR	803.0 - 1768.0			
DIL LSS GR	1775.0 - 2971.0			
DIL LSS GR SP	804.0 - 1769.0			
DRILLING DATA	347.0 - 2973.0			
FMS4	1775.0 - 2973.0			
FORMATION EVALUATION	347.0 - 2973.0			
GASLOG	1290.0 - 2973.0			
LDL CNL SGR	803.0 - 1751.0			
LDL CNL SGR	1450.0 - 2963.0			
LDL GR	804.0 - 1752.0			
MSD	1777.0 - 2964.0			

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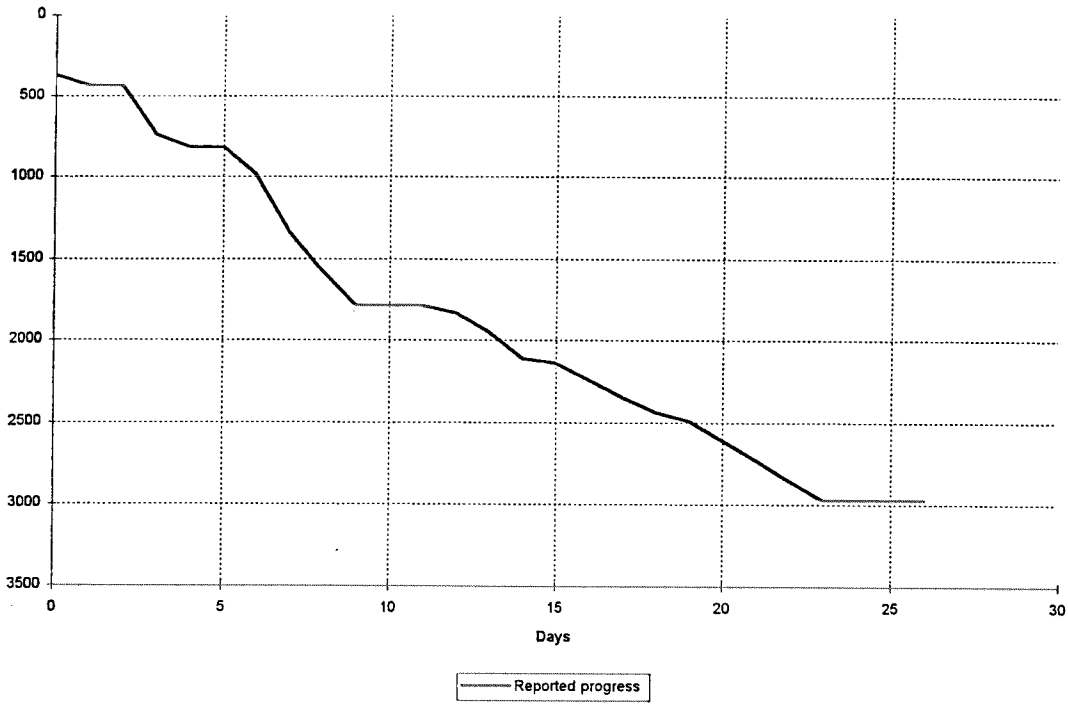
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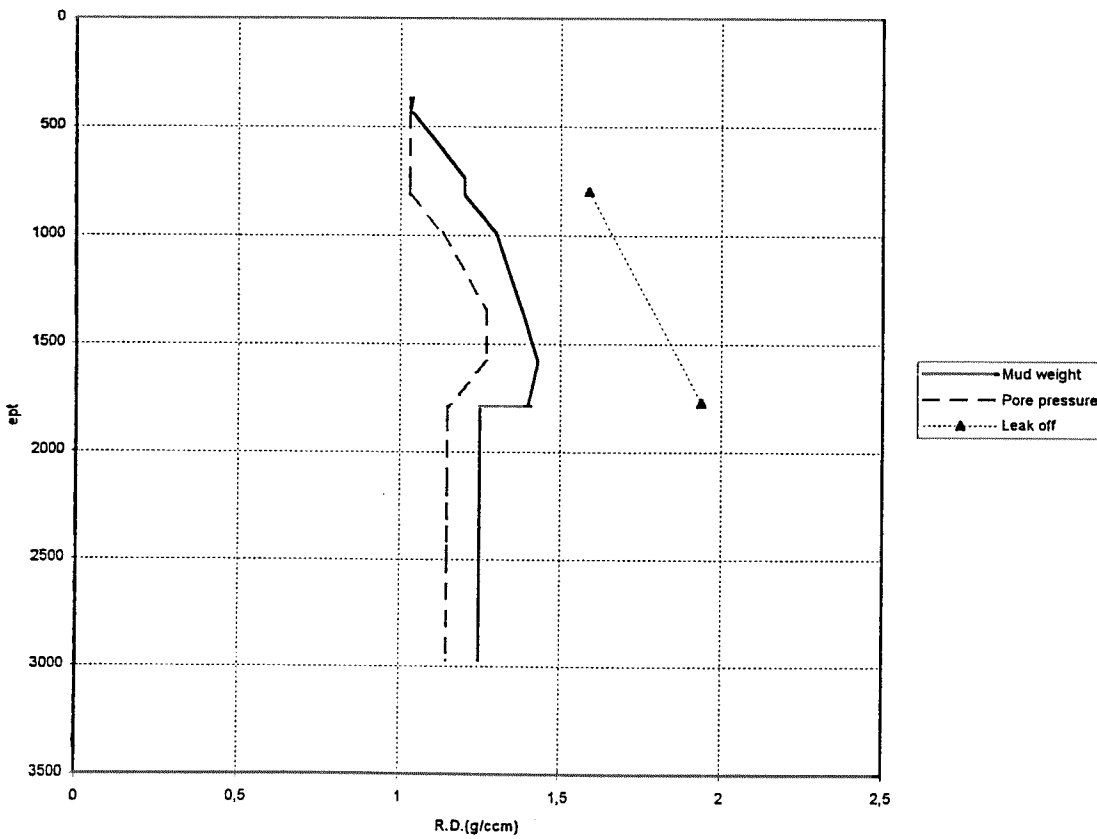
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MWD LOG	347.0 - 2973.0			
NGS	1775.0 - 2954.0			
POST SITE SURVEY				1000
RFT HP	2463.0 - 2687.0			
SYNTHETIC SEISMOGRAM				
TWO WAY TRAVEL TIME				
VDL FOR TOP OF	1185.0 - 1775.0			
VSP				5000

Depth v.s. time plot for well: 6407/10-3



Composite plot for well: 6407/10-3



Main operations for well: 6407/10-3**Main operation: DRILLING**

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	1170	19,5	4,42
BOP/WELLHEAD EQ	1530	25,5	5,78
CASING	5580	93,0	21,09
CIRC/COND	1050	17,5	3,97
DRILL	11640	194,0	43,99
REAM	30	0,5	0,11
TRIP	5460	91,0	20,63
Total	26460	441,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC/COND	270	4,5	4,57
CORE	1320	22,0	22,34
LOG	3600	60,0	60,91
TRIP	720	12,0	12,18
Total	5910	98,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
MAINTAIN/REP	2610	43,5	82,08
OTHER	570	9,5	17,92
Total	3180	53,0	100,00

Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	1530	25,5	31,10
TRANSIT	3390	56,5	68,90
Total	4920	82,0	100,00

Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	360	6,0	8,63
CIRC/COND	330	5,5	7,91
CUT	360	6,0	8,63
EQUIP RECOVERY	2070	34,5	49,64
TRIP	1050	17,5	25,18
Total	4170	69,5	100,00

Total time used: Hours

WELL HISTORY 6407/10-3

GENERAL:

The primary target of well 6407/10-3 was to test Upper Jurassic transgressive sandstone (Draugen analog). Lower Jurassic to Upper Triassic sandstone was believed to constitute a possible secondary target. In summary, the main objectives for drilling the well 6407/10-3 were:

- Test the oil potential of Upper Jurassic transgressive sand.
- Test reservoir quality and hydrocarbon potential of the dipping pre-Jurassic reflectors.
- Penetrate the deep basement? reflectors and test reservoir quality in order to prepare area for relinquishment.

OPERATION:

Well 6407/10-3 was spudded on the 29th May 1992 by the semi submersible rig "Transocean 8" and was completed 26th June 1992, at a total depth of 2973m RKB in rocks of Triassic age.

The Upper Jurassic Viking Group was encountered at 1805.6m RKB and consisted of claystone characteristic of the Spekk Formation down to the Triassic section at 1826.5m RKB.

From 1826.5m to 2155m RKB undifferentiated Late to Middle Triassic "red beds" are present, followed by Carnian to ?Ladian "red beds" from 2155m to 2555m RKB. Undifferentiated "red beds" continued to 2958.5m, where the bore passed into fractured rocks of possible Triassic age.

The well was plugged and abandoned as a dry hole.

TESTING:

No DST test was performed in this well.

Geological Tops.

Well: 6407/10-3.

	Depth m (RKB).
Nordland Group	347.0
Naust Fm	347.0
Kai Fm	743.0
Hordaland Group	818.0
Brygge Fm	818.0
Rogaland Group	1310.0
Tare Fm	1310.0
Tang Fm	1382.0
Shetland Group	1522.5
Springar Fm	1522.5
Nise Fm	1581.0
Kvitnos Fm	1653.0
Cromer Knoll Group	1770.0
Lyr Fm	1770.0
Viking Group	1805.0
Spekk Fm	1805.5
Melke Fm	1699.0
Grey beds	1826.5
Red beds	1850.0
Red beds	2155.0
Red beds	2555.0
T.D.	2973.0